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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/921.083	08/02/2001	Vladimir Leonov	01P14199US	6776	
75	90 06.27/2003				
Siemens Corporation			EXAMINER		
186 Wood Aver			GONZALEZ	GONZALEZ, JULIO C	
Iselin, NJ 08830			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 06/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/921,083	LEONOV, VLADIMIR
Office Action Summary	Examiner	Art Unit
	Julio C. Gonzalez	2834
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clarifer SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s - Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b) Status	ON. FR 1.136(a). In no event, however, may a roun. a reply within the statutory minimum of third eriod will apply and will expire SIX (6) MOSTATUTE. CAUSE the application to become ASTATUTE.	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication.
1) Responsive to communication(s) filed on	20 March 2003	
	This action is non-final.	
3) Since this application is in condition for a	llowance except for formal mat	tters, prosecution as to the merits is
closed in accordance with the practice ur Disposition of Claims	ider <i>Ex parte Quayle</i> , 1935 C.t	J. 11, 453 O.G. 213.
4) \boxtimes Claim(s) <u>1-24</u> is/are pending in the application	ation.	
4a) Of the above claim(s) <u>1-10 and 21-24</u> i	s/are withdrawn from consider	ation.
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>11-20</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers		
9) The specification is objected to by the Exan		
10) The drawing(s) filed on <u>02 August 2001</u> is/a		
Applicant may not request that any objection		
11) The proposed drawing correction filed on _		sapproved by the Examiner.
If approved, corrected drawings are required in		
12) The oath or declaration is objected to by the	e Examiner.	
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) All b) Some * c) None of:		
Certified copies of the priority docum Certified copies of the priority documents. Certified copies of the priority documents.		
— — To a more depicte of the priority docum		
 Copies of the certified copies of the papplication from the International See the attached detailed Office action for a 	Bureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for dom		
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dom	provisional application has be	en received.
ttachment(s)	is a priority aridor oo o.o.o.	33 120 GHQ/OL 121.
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(5) Notice of In	ummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152)

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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: shaft 84, first section member 102 and third sectioned member 192. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: in figure 1, reference number 26'. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "14" has been used to designate both elongated portion (page 2) and axial portion (page 1); reference character "43" has been used to

designate both end of conductor 40 and radial portion (page 15); reference character "46" has been used to designate both groove (page 15) and conductor channel; reference character "44" has been used to designate both second sectioned member and groove (page 15, line 1); reference character "163" has been used to designate both radial portion and axial portion; reference character "166" has been used to designate both second sectioned conductor and bore (page 17). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim11-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 discloses that the sectioned conductors are "adapted to" accommodate stress forces. What is meant by "adapted to"? In what way are the sectioned conductors able to adapt? Also the claims discloses that the sectioned member

move "relative" to each other. How is this "relative" move? How much do they move? The claim also discloses that the stress forces are accommodated. How are the forces accommodated? From the prior art, it may seem as if the element having portions 14 and 16 would be able also to accommodates stress forces since the rotor would move and eventually the portions 14 and 16 would "relative" move and thus accommodate forces. How is claim 1, as disclosed, different from the prior art?

In claim 13, it is disclosed that one clastic conductor connects both sectioned members. It may seem as if this elastic conductor is the same as the spring disclosed in claim 14 since the specifications in page 12 and page 13, lines 7-11, 25-30 disclosed that the elastic conductor is part of the spring. Is the elastic member a different device than the spring 50? Or are both the same device?

In order to advance prosecution in the merits, the Prior Art will be applied as best understood by the examiner.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over disclosure of present application of prior art (mainly figure 1) and Anderson.

The prior art discloses a sectioned conductor having a first sectioned member 14 and a second sectioned member 16 which are electrically connected to each other and it is provided a conductive path between a rotor coil 28' and a radial stud 32'. Moreover, the prior art teaches inherently that both of the sectioned members will "relative" move since if both sectioned members would be rigid, any movement of the rotor would break them and thus electrical connection would be lost. There must be some relative bending of the sectioned members in order to compensate for any movement due to stress forces.

However, the prior art does not disclose explicitly how sectioned members may moved.

On the other hand, Anderson discloses for the purpose of improving the construction of electrical machines that sectioned members "T" may move relative to the connections "R, R', R², S, S', S²" (see figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a sectioned conductor as disclosed by the disclosure of the present application in the prior art and to modify the invention by

showing explicitly that sectioned members may move relative for the purpose of improving the construction of electrical machines as disclosed by Anderson.

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Prior art and Anderson as applied to claim 11 above, and further in view of Challita et al.

The combined sectioned conductor discloses all of the elements above.

However, the combined sectioned conductor does not disclose that the section members are spaced apart.

On the other hand, Challita et al discloses for the purpose of providing an electrical machine that has brushes and collectors with a low value of resistivity thus making more efficient, that first sectioned members 72 and second sectioned members are spaced apart (see figure 3).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined sectioned conductor as disclosed above and to modify the invention by having the sectioned members apart for the purpose of providing an electrical machine that has brushes and collectors with a low value of resistivity thus making more efficient as disclosed by Challita et al.

9. Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior Art, Anderson and Challita et al as applied to claim12 above, and further in view of Thompson.

The combined sectioned conductor discloses all of the elements above.

However, the combined sectioned conductor does not disclose that the section members are electrically connected by a spring/elastic member.

On the other hand, Thompson discloses for the purpose of making a commutator assembly that has cost and manufacturing advantages by maintaining the commutator bars in their correct positions, a spring 24 which connects that first sectioned member 20 and the second sectioned member 25 (see figure 2).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined sectioned conductor as disclosed above and to modify the invention by having a spring connected between the sectioned members for the purpose of making a commutator assembly that has cost and manufacturing advantages by maintaining the commutator bars in their correct positions as disclosed by Thompson.

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Allowable Subject Matter

10. Claims 16-20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jcg

June 19, 2003

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